

Supplementary Table 1: Additional study characteristics

Author, Year	Study design	Study Population	MMSE	HAMD-17	Mean LLD duration, months (SD)	LLD Episodes (SD)	Mean ideation severity (SD)
Chen 2024 [34]	Cross-sectional	32 SI, 76 N-S LLD, 75 HC	23.04 (5.16); 23.32 (4.83); 27.28 (1.42)	11.35 (6.90); 9.78 (7.20); 1.47 (1.87)	Not reported	Not reported	Not reported
Lin 2024 [29]	Cross-sectional	48 suicidal (SA/SI), 35 N-S LLD	27.9 (1.3); 27.7 (1.5)	9.4 (6.4); 7.6 (4.7)	Not reported	3.3 (2.9); 1.9 (1.6)	BSS; 6.3 (5.6); 2.4 (2.7)
Lin 2023 [35]	Cross-sectional	32 SI, 41 N-S LLD, 54 HC	23.81 (4.41); 22.53 (5.63); 27.20 (1.50)	10.50 (6.92); 8.92 (6.63); 1.20 (1.66)	Not reported	Not reported	Not reported
Gao 2023 [30]	Cross-sectional	24 SA, 30 SI, 37 N-S LLD	27.33 (2.17); 27.29 (1.68); 26.81 (2.08)	8.87 (6.38); 9.96 (6.91); 8.78 (6.80)	155.80 (108.35); 151.99 (132.26); 103.14 (78.92)	3.33 (3.39); 2.58 (1.50); 1.70 (0.85)	BSS; 7.27 (5.43); 4.21 (5.02); 2.76 (4.21)
Shao 2022 [31]	Cross-sectional	35 SA, 33 SI, 45 N-S LLD	27.11 (2.21); 27.24 (1.85); 27.09 (2.05)	9.57 (6.36); 9.82 (6.81); 8.44 (6.42)	147.88 (107.72); 141.00 (118.56); 112.91 (80.95)	3.15 (3.23); 3.00 (2.18); 1.98 (1.58)	BSS; 6.94 (5.41); 4.14 (5.08); 2.62 (4.14)
Hsu 2025 [33]	Cross-sectional case-control	24 SA, 37 SI, 42 N-S LLD	27.67 (0.38); 27.11 (0.37); 26.98 (0.38)	8.12 (1.28); 11.08 (1.28); 8.31 (1.00)	176.45 (23.56); 131.29 (20.77); 114.44 (12.34)	Not reported	Not reported
Vanyukov 2015 [36]	Cross-sectional case-control	18 SA, 13 N-S LLD, 18 HC	Not reported	14.22 (7.6); 10.31 (7.3); 2.56 (2.1) ^a	Not reported	Not reported	SIS; 19.22; -; -;
Dombrovski 2013 [32]	Cross-sectional case-control	15 SA, 18 N-S LLD, 20 HC	Not reported	12.9 (8.7); 11.1 (6.2); 3.0 (3.4) ^a	Not reported	Not reported	SIS; 18.1 (4.6); -; -;

SA: suicide attempt; SI: suicidal ideation/plan; HC: healthy (non-depressed) controls; N-S: non-suicidal; MMSE: Mini-Mental State Examination; HAMD-17: 17-item Hamilton Depression Rating Scale; LLD: Late-life depression; BSS: Beck Scale for Suicidal Ideation; SIS: Suicide Intent Scale; SD: Standard deviation

^aexcluded suicide item